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DATE: Tuesday, November 09, 2004

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=AND

<input type="checkbox"/>	L1	murd.ti,ab,clm. or mur-d.ti,ab,clm.	32
<input type="checkbox"/>	L2	11 and (pseudomon\$ or aeruginosa)	8
<input type="checkbox"/>	L3	UDP-N-acetylmuramoyl-l-alanine:D-glutamate near3 ligase	4
<input type="checkbox"/>	L4	('6030996' '20030088061' '6211161' '20030077803')!.PN.	8
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Search Results - Record(s) 1 through 8 of 8 returned.

L4: Entry 1 of 8

File: PGPB

May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088061

DOCUMENT-IDENTIFIER: US 20030088061 A1

TITLE: Materials and methods to modulate ligand binding/enzymatic activity of alpha/beta proteins containing an allosteric regulatory site

PUBLICATION-DATE: May 8, 2003

US-CL-CURRENT: 530/350INT-CL: [07] A61 K 31/165, C07 K 14/435

L4: Entry 2 of 8

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077803

DOCUMENT-IDENTIFIER: US 20030077803 A1

TITLE: Crystals of the escherichia coli membrane-associated glycosyltransferase (MurG) protein, atomic coordinates and three dimensional structures thereof, atomic coordinates and three dimensional structures of binding domains thereof, images thereof, and methods of crystallizing MurG proteins models of UDP

glycosyltransferases, MurG proteins and binding sites methods of making models, methods of using models of MurG, compounds that bind, inhibit or stimulate MurG proteins, and therapeutic compositions thereof

PUBLICATION-DATE: April 24, 2003

US-CL-CURRENT: 435/199; 702/19INT-CL: [07] C12 N 9/22, G06 F 19/00, G01 N 33/48, G01 N 33/50

L4: Entry 3 of 8

File: USPT

Apr 3, 2001

US-PAT-NO: 6211161

DOCUMENT-IDENTIFIER: US 6211161 B1

TITLE: UDP-N-acetylmuramoyl-l-alanine:D-glutamate ligase (MURD) of staphylococcus aureus

DATE-ISSUED: April 3, 2001

US-CL-CURRENT: 514/44; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/455, 435/471, 435/69.1, 536/23.1, 536/23.2, 536/23.4, 536/23.7INT-CL: [07] A61 K 48/00, C07 H 21/00, C12 N 15/31, C12 N 15/52, C12 N 15/63

L4: Entry 4 of 8

File: USPT

Feb 29, 2000

US-PAT-NO: 6030996

DOCUMENT-IDENTIFIER: US 6030996 A

TITLE: Mur D inhibiting compounds, compositions containing such compounds and

methods of use

DATE-ISSUED: February 29, 2000

US-CL-CURRENT: 514/459; 514/460, 549/216, 549/217, 549/218, 549/219, 549/417,
549/418, 549/419, 549/420

INT-CL: [07] H01 N 43/16, C07 F 9/28, C07 D 315/06

L4: Entry 5 of 8

File: DWPI

Mar 3, 2004

DERWENT-ACC-NO: 2002-471361

ABSTRACTED-PUB-NO: WO 200231511A

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TITLE: Modulating binding interactions between alpha/beta proteins comprising allosteric regulatory sites, and a binding partner, by contacting with an allosteric effector molecule that interacts with the regulatory site

INT-CL (IPC): A61 K 31/145, A61 K 31/165, A61 K 31/192, A61 K 31/36, A61 K 31/40,
A61 K 31/404, A61 K 31/4045, A61 K 31/454, A61 K 31/4545, A61 K 31/496, A61 K
45/00, A61 P 9/00, A61 P 19/00, A61 P 29/00, A61 P 31/00, A61 P 35/00, A61 P
37/00, A61 P 43/00, C07 K 14/435, G01 N 33/15, G01 N 33/53, G01 N 33/566, G01 N
33/68

Derwent-CL (DC): B04, D16 , S03

CPI Codes: B04-C01; B04-N02; B04-N04; B12-M05; B14-C03; B14-C06; B14-C09; B14-C09B;
B14-F01; B14-F02; B14-F03; B14-F06; B14-F07; B14-G01; B14-G02; B14-G03; B14-J01;
B14-J01B4; B14-L01; B14-L06; B14-N12; D05-H09;

EPI Codes: S03-E14H;

L4: Entry 6 of 8

File: DWPI

Apr 24, 2003

DERWENT-ACC-NO: 2002-171402

ABSTRACTED-PUB-NO: WO 200190301A

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TITLE: Novel composition comprising crystalline form of MurG protein, a membrane-associated UDP-glycosyltransferase involved in peptidoglycan biosynthesis, for determining ability of chemical compound to bind MurG protein

INT-CL (IPC): C12 N 0/00, C12 N 9/22, G01 N 33/48, G01 N 33/50, G06 F 19/00

Derwent-CL (DC): B04, D16 , T01

CPI Codes: B04-C01B; B04-C01G; B04-L04; B04-N03A; B05-C01; B05-C05; B07-D11; B10-B03B;
B10-C02; B10-E03; B10-H01; B11-C08E3; B11-C08F3; B12-K04E; B14-A01; D05-H09;
EPI Codes: T01-J10C4; T01-S03;

L4: Entry 7 of 8

File: DWPI

Apr 15, 1999

DERWENT-ACC-NO: 1999-263902

ABSTRACTED-PUB-NO: US 6211161B

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TITLE: Enzyme from Staphylococcus aureus involved in peptidoglycan synthesis

INT-CL (IPC): A61 K 38/00, A61 K 38/16, A61 K 38/17, A61 K 45/00, A61 K 48/00, A61
P 31/00, A61 P 43/00, C07 H 21/00, C07 K 14/435, C07 K 14/47, C07 K 16/18, C12 N

5/10, C12 N 15/09, C12 N 15/12, C12 N 15/31, C12 N 15/52, C12 N 15/63, C12 P 21/02,
C12 Q 1/68, G01 N 33/15, G01 N 33/50, G01 N 33/53, G01 N 33/566, G01 N 33/569
Derwent-CL (DC): B04, D16
CPI Codes: B04-C01G; B04-E02F; B04-E05; B04-F0100E; B04-G07; B04-N03A; B11-C08E1;
B11-C08E4; B12-K04A; B12-K04E; B14-A01; D05-H07; D05-H09; D05-H11; D05-H12A; D05-
H12E; D05-H14; D05-H17;

L4: Entry 8 of 8

File: DWPI

Oct 8, 1998

DERWENT-ACC-NO: 1998-542394
ABSTRACTED-PUB-NO: US 6030996A
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TITLE: New N-acetyl-muramic acid derivatives - are UDP-N-acetyl-muramoyl-L-alanin-
e:D-glutamate ligase inhibitors useful for treating bacterial infections

INT-CL (IPC): A01 N 43/16, A61 K 31/70, C07 D 315/06, C07 F 9/28, C07 H 15/00, C07
H 17/00, C07 H 23/00
Derwent-CL (DC): B03
CPI Codes: B05-B01E; B14-A01; B14-D03;

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- ☐ 1. [6746858](#). 03 May 00; 08 Jun 04. MurD protein and gene of *Streptococcus pyogenes*. [El-Sherbeini](#); Mohammed, et al. 435/183; 435/252.3 435/254.11 435/320.1 435/69.1 536/23.2. C12N009/00 C12N015/63 C12N001/00 C12N015/52 C12P021/02.
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- ☐ 2. [6534284](#). 03 May 00; 18 Mar 03. MurD protein and gene of *Staphylococcus aureus*. [El-Sherbeini](#); Mohammed, et al. 435/69.1; 435/183 435/193 435/252.3 435/320.1 435/325 435/70.1 435/71.1 536/23.2 536/23.7. C07H021/04 C12N009/00 C12P021/06.
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- ☐ 3. [5955337](#). 21 Nov 96; 21 Sep 99. DNA encoding GLS1. [El-Sherbeini](#); Mohammed, et al. 435/193;. C12N009/10.
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- ☐ 4. [5821353](#). 01 Aug 96; 13 Oct 98. DNA encoding 1,3 beta-D glucan synthase subunits. Douglas; Cameron M., et al. 536/23.74; 435/252.3 435/254.11 435/320.1 435/325 435/69.1 530/350. C07H021/04 C12N001/15 C12P021/02 C07K014/395.
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- ☐ 5. [5484724](#). 26 May 94; 16 Jan 96. DNA encoding GLSI. [El-Sherbeini](#); Mohamed, et al. 435/193; 435/188 435/189 435/252.3 435/254.1 435/254.2 435/255.2 435/69.1 536/22.1 536/23.1 536/23.7 536/23.74. C12N009/10 C12N009/96 C12N001/14 C12P021/06.
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- ☐ 6. [WO009961050A1](#). 26 May 99. 02 Dec 99. MURD PROTEIN AND GENE OF PSEUDOMONAS AERUGINOSA. [EL-SHERBEINI](#), MOHAMED, et al. A61K039/00; A61K039/02 A61K039/108 C07H021/02 C07H021/04 C12N015/00 C12N015/20 C12P021/06 C12P021/04.
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- ☐ 7. [WO009923241A1](#). 30 Oct 98. 14 May 99. MURD PROTEIN AND GENE OF STAPHYLOCOCCUS AUREUS. [EL-SHERBEINI](#), MOHAMMED, et al. C12P021/06; C12N001/20 C12N009/10 C12N015/00.
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- ☐ 8. [WO009923201A1](#). 30 Oct 98. 14 May 99. MURD PROTEIN AND GENE OF STREPTOCOCCUS PYOGENES. [EL-SHERBEINI](#), MOHAMMED, et al. C12N001/00; C12N005/10 C12N009/00 C12N015/52 C12N015/63 C12Q001/68.
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- ☐ 9. [WO009635804A1](#). 03 May 96. 14 Nov 96. A NOVEL BIOCHEMICAL INTERACTION IN BACTERIA. POMPLIANO, DAVID L, et al. C12Q001/02; C12Q001/68 C07K014/245 G01N033/567.
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- ☐ 10. [WO 200125251A](#). New MraY gene and enzyme of *Pseudomonas aeruginosa*, useful in vitro assays for screening antibacterial compounds that target cell wall biosynthesis, particularly for screening antibiotics against Pseudomonads. AZZOLINA, B, et al. C07H021/04 C12N015/00 C12N015/09 C12P021/06.
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- ☐ 11. [WO 200119979A](#). New *Pseudomonas aeruginosa* MurC enzyme involved in bacterial cell wall biosynthesis, useful for identifying inhibitors of enzyme which are active against both gram positive and gram negative bacteria. AZZOLINA, B, et al. A61K031/70 C12N015/09.
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- ☐ 12. [WO 200119843A](#). Novel purified and isolated *Pseudomonas aeruginosa* MurE polypeptide useful in assays to identify compounds that modulate activity of the polypeptide and for generation of antibodies against the polypeptide. AZZOLINA, B, et al. C07H021/04 C12N015/00 C12N015/09

C12P021/06.

☐ 13. [WO 200118018A](#). New *Pseudomonas aeruginosa* MurF polypeptide useful in assays to identify compounds that modulate activity of the polypeptide and for generation of antibodies against the polypeptide. AZZOLINA, B, et al. C07H021/02 C07H021/04 C12N001/14 C12N001/16 C12N001/18 C12N001/20 C12N005/00 C12N005/04 C12N005/10 C12N009/00 C12N015/00 C12N015/09 C12N015/63 C12N015/70 C12N015/74 G01N033/53.

☐ 14. [WO 9961050A](#). New nucleic acid encoding the MurD protein of *Pseudomonas aeruginosa*, used to identify specific inhibitors. AZZOLINA, B, et al. A61K038/00 A61K039/00 A61K039/02 A61K039/108 A61K045/00 A61P031/04 C07H021/02 C07H021/04 C12N015/00 C12N015/09 C12N015/20 C12P021/04 C12P021/06.

☐ 15. [US 6069341A](#). Apparatus for deicing the surface of propeller blades. GAGE, M E, et al. B64D015/18 H05B001/00 H05B003/00.

☐ 16. [WO 9923241A](#). MurD protein useful in screening for antimicrobial compounds. EL-SHERBEINI, M, et al. C07H021/04 C12N001/20 C12N001/21 C12N009/00 C12N009/10 C12N015/00 C12N015/09 C12P021/06.

☐ 17. [WO 9923201A](#). MurD protein and related gene of *Streptococcus pyogenes*. EL-SHERBEINI, M, et al. C07K014/315 C12N001/00 C12N001/15 C12N001/19 C12N001/21 C12N005/10 C12N009/00 C12N015/09 C12N015/52 C12N015/63 C12P021/02 C12Q001/68 G01N033/573.

☐ 18. [WO 9635804A](#). Novel interaction between *E. coli* proteins FtsZ and PBP3 - used to develop antibiotics which can inhibit the interaction and prevent bacterial cell division. BRAMHILL, D, et al. C07K014/245 C12Q001/02 C12Q001/68 G01N033/567.

☐ 19. [US 5484724A](#). New isolated DNA encoding a glucan synthase subunit - used for developing prods. for use in detection and characterisation, and for identifying modulators, e.g. for treating fungal infections. CLEMAS, J A, et al. A01N037/18 A61K038/00 A61K038/43 A61K039/395 A61K045/00 C07H019/00 C07H021/00 C07H021/02 C07H021/04 C07K016/00 C07K016/40 C12N001/14 C12N001/16 C12N001/19 C12N001/20 C12N001/21 C12N009/10 C12N009/96 C12N015/00 C12N015/09 C12N015/63 C12N015/70 C12N015/74 C12P021/06 C12P021/08 G01N033/53 C12N015/09 C12R001:865 C12N001/21 C12R001:19 C12N009/10 C12R001:865.

☐ 20. [US 5821353A](#). DNA encoding FK506 sensitivity genes - used in in vitro assays to screen for antifungal cpds., including cpds. that affect cell wall biosynthesis. CHREBET, G L, et al. A61K038/00 C07H021/04 C07K014/38 C07K014/39 C07K014/395 C07K016/14 C12N001/15 C12N001/21 C12N005/10 C12N015/09 C12N015/11 C12P001/04 C12P021/02 G01N033/53 C12N001/15 C12R001:865.

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- ☐ 1. [20040203077](#). 04 May 04. 14 Oct 04. Method and kit for quantitation of polypeptides. Schwartzburd, Boris. 435/7.2; 435/455 435/483 435/7.31 G01N033/53 G01N033/567 G01N033/569 C12N015/87 C12N015/74.
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- ☐ 2. [20040002440](#). 19 Feb 03. 01 Jan 04. Novel diagnostic agents of chronic or persistent chlamydial diseases and uses thereof. Timms, Peter, et al. 514/2; 435/6 435/7.32 514/44 A61K038/16 A61K048/00 G01N033/554 G01N033/569 C12Q001/68.
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- ☐ 3. [20020015678](#). 09 Feb 99. 07 Feb 02. DIRECT ADSORPTION SCINTILLATION ASSAY FOR MEASURING ENZYME ACTIVITY AND ASSAYING BIOCHEMICAL PROCESSES. YUAN, ZHENGYU, et al. 424/1.11; 422/102 435/4 435/7.1 435/7.2 436/501 436/518 436/537 A61K051/00 C12Q001/00 G01N033/53 G01N033/567 G01N033/543 G01N033/542 G01N033/566.
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- ☐ 4. [6746858](#). 03 May 00; 08 Jun 04. MurD protein and gene of Streptococcus pyogenes. El-Sherbeini; Mohammed, et al. 435/183; 435/252.3 435/254.11 435/320.1 435/69.1 536/23.2. C12N009/00 C12N015/63 C12N001/00 C12N015/52 C12P021/02.
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- ☐ 5. [6534284](#). 03 May 00; 18 Mar 03. MurD protein and gene of Staphylococcus aureus. El-Sherbeini; Mohammed, et al. 435/69.1; 435/183 435/193 435/252.3 435/320.1 435/325 435/70.1 435/71.1 536/23.2 536/23.7. C07H021/04 C12N009/00 C12P021/06.
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- ☐ 6. [6534278](#). 03 Mar 00; 18 Mar 03. Screening for antibiotics. Rothstein; David M.. 435/7.2; 435/18 435/183 435/19 435/24 435/243 435/32 435/471 435/6 435/69.1 435/69.8 435/7.1 435/7.32 435/7.4 536/24.3 536/24.32. G01N033/53.
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- ☐ 7. [6350598](#). 13 Apr 99; 26 Feb 02. MurD. Wallis; Nicola Gail, et al. 435/183; 424/94.5. C12N009/00 A61K038/83.
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- ☐ 8. [6211161](#). 19 Mar 99; 03 Apr 01. UDP-N-acetylmuramoyl-l-alanine:D-glutamate ligase (MURD) of staphylococcus aureus. Beattie; David T, et al. 514/44; 435/252.3 435/254.11 435/320.1 435/325 435/455 435/471 435/69.1 536/23.1 536/23.2 536/23.4 536/23.7. A61K048/00 C07H021/00 C12N015/31 C12N015/52 C12N015/63.
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- ☐ 9. [5929045](#). 19 Sep 97; 27 Jul 99. Recombinant expression of polynucleotides encoding the UDP-N-acetylmuramoylalanine:D-glutamate ligase (MurD) of Streptococcus pneumoniae. Wallis; Nicola Gail, et al. 514/44; 435/252.3 435/320.1 435/325 435/69.1 536/23.2 536/23.7. A61K048/00 C12N005/10 C12N015/31 C12N015/63.
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- ☐ 10. [5891621](#). 24 Sep 97; 06 Apr 99. Metabolic pathway assay. Chabin; Renee M., et al. 435/4; 435/15 435/16 435/18 435/21 435/23 435/24 435/32 435/7.91. C12Q001/00 C12Q001/37 C12Q001/18 C12Q001/48.
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- ☐ 11. [5834270](#). 14 Apr 97; 10 Nov 98. Biosynthetic gene murD from streptococcus pneumoniae. Hoskins; Jo Ann, et al. 435/488; 435/183 435/243 435/252.3 435/320.1 435/325 536/23.2. C12N015/00 C12N009/00 C12N005/00 C07H021/04.
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☐ 12. [5681694](#). 18 Jun 96; 28 Oct 97. Murd protein method and kit for identification of inhibitors. Hoskins; Jo Ann, et al. 435/4; 435/183 435/184. C12N009/00 C12N009/99.

☐ 13. [JP411243969A](#). 12 Aug 98. 14 Sep 99. NEW MURD. WALLIS, NICOLA GAIL, et al. C12N015/09; A61K031/00 A61K031/00 A61K031/00 A61K038/00 A61K039/09 A61K039/395 A61K045/00 A61K048/00 C07K016/40 C12N001/21 C12P021/02 C12Q001/68 G01N033/15 G01N033/50 G01N033/566.

☐ 14. [WO2004038041A1](#). 22 Oct 03. 06 May 04. SCREENING ASSAY TO IDENTIFY INHIBITORS OF THE MURD ENZYME USING AN ACTIVATOR-INDEPENDENT MURD ENZYME. JAHIC, HARIS, et al. C12Q001/48; G01N033/569.

☐ 15. [WO009961050A1](#). 26 May 99. 02 Dec 99. MURD PROTEIN AND GENE OF PSEUDOMONAS AERUGINOSA. EL-SHERBEINI, MOHAMED, et al. A61K039/00; A61K039/02 A61K039/108 C07H021/02 C07H021/04 C12N015/00 C12N015/20 C12P021/06 C12P021/04.

☐ 16. [WO009923241A1](#). 30 Oct 98. 14 May 99. MURD PROTEIN AND GENE OF STAPHYLOCOCCUS AUREUS. EL-SHERBEINI, MOHAMMED, et al. C12P021/06; C12N001/20 C12N009/10 C12N015/00.

☐ 17. [WO009923201A1](#). 30 Oct 98. 14 May 99. MURD PROTEIN AND GENE OF STREPTOCOCCUS PYOGENES. EL-SHERBEINI, MOHAMMED, et al. C12N001/00; C12N005/10 C12N009/00 C12N015/52 C12N015/63 C12Q001/68.

☐ 18. [WO009917794A1](#). 02 Oct 98. 15 Apr 99. UDP-N-ACETYLMURAMOYL-L-ALANINE:D-GLUTAMATE LIGASE (murD) OF STAPHYLOCOCCUS AUREUS. PALMER, LESLIE, et al. A61K038/16; A61K038/17 C07K014/435 C07K014/47 C12N015/12.

☐ 19. [EP000906956A2](#). 30 Jul 98. 07 Apr 99. MurD from Streptococcus pneumoniae. FUEYO, JOANNA LYNN, et al. C12N015/52; C12N009/00 C07K016/40 A61K038/53 G01N033/50 G01N033/573.

☐ 20. [WO2004038041A](#). Use of an activator-independent MurD enzyme in a screening assay to identify inhibitors of the enzyme, or for identifying and characterizing modulators of the MurD enzyme. JAHIC, H, et al. C12Q001/48 G01N033/569.

☐ 21. [WO2003027139A](#). Novel crystallized recombinant polypeptides from Staphylococcus aureus, Streptococcus pneumoniae and Helicobacter pylori and which are involved in membrane biosynthesis, useful as targets for pathogenic bacteria. ALAM, M Z, et al. C07K014/195.

☐ 22. [WO2003025007A](#). Novel crystallized recombinant polypeptides from Staphylococcus aureus, Streptococcus pneumoniae and Escherichia coli and which are involved in membrane biosynthesis, useful as targets for pathogenic bacteria. ALAM, M Z, et al. C07K014/195.

☐ 23. [US20020015678A](#). Analyzing a sample for measuring enzyme activity and assaying biochemical processes, by direct adsorption scintillation assay. CHEN, Z, et al. A61K051/00 C12Q001/00 G01N033/53 G01N033/542 G01N033/543 G01N033/566 G01N033/567.

☐ 24. [WO 200149775A](#). Antisense compounds against bacterial cell division and cell cycle-encoding nucleic acids, useful for treating bacterial infections and for producing attenuated vaccines for

the treatment of bacterial infections. IVERSEN, P L. A23K001/16 A23K001/18 A61K031/712 A61K039/02 A61P031/04 C08G077/00 C12N015/09 C12N015/11.

☐ 25. WO 9961050A. New nucleic acid encoding the MurD protein of *Pseudomonas aeruginosa*, used to identify specific inhibitors. AZZOLINA, B, et al. A61K038/00 A61K039/00 A61K039/02 A61K039/108 A61K045/00 A61P031/04 C07H021/02 C07H021/04 C12N015/00 C12N015/09 C12N015/20 C12P021/04 C12P021/06.

☐ 26. WO 9923241A. MurD protein useful in screening for antimicrobial compounds. EL-SHERBEINI, M, et al. C07H021/04 C12N001/20 C12N001/21 C12N009/00 C12N009/10 C12N015/00 C12N015/09 C12P021/06.

☐ 27. WO 9923201A. MurD protein and related gene of *Streptococcus pyogenes*. EL-SHERBEINI, M, et al. C07K014/315 C12N001/00 C12N001/15 C12N001/19 C12N001/21 C12N005/10 C12N009/00 C12N015/09 C12N015/52 C12N015/63 C12P021/02 C12Q001/68 G01N033/573.

☐ 28. US 6211161B. Enzyme from *Staphylococcus aureus* involved in peptidoglycan synthesis. BEATTIE, D T, et al. A61K038/00 A61K038/16 A61K038/17 A61K045/00 A61K048/00 A61P031/00 A61P043/00 C07H021/00 C07K014/435 C07K014/47 C07K016/18 C12N005/10 C12N015/09 C12N015/12 C12N015/31 C12N015/52 C12N015/63 C12P021/02 C12Q001/68 G01N033/15 G01N033/50 G01N033/53 G01N033/566 G01N033/569.

☐ 29. EP 906956A. New *Streptococcus pneumoniae* MurD polypeptide and polynucleotide, useful as diagnostic reagents and for prevention and treatment of Streptococci infections e.g. pneumonia and meningitis. FUEYO, J L, et al. A61K031/00 A61K031/70 A61K038/00 A61K038/43 A61K038/53 A61K038/83 A61K039/09 A61K039/395 A61K045/00 A61K048/00 C07K016/40 C12N001/21 C12N005/10 C12N009/00 C12N015/09 C12N015/31 C12N015/52 C12N015/63 C12P021/02 C12Q001/25 C12Q001/68 G01N033/15 G01N033/50 G01N033/566 G01N033/569 G01N033/573 C12N015/09 C12R001:46.

☐ 30. US 5834270A. *Streptococcus pneumoniae* mur D biosynthetic gene - which encodes uridine-diphosphate-N-acetylmuramyl-L-alanyl-D-isoglutamate ligase, useful for identifying antibacterial compounds. HOSKINS, J A, et al. C07H021/04 C12N005/00 C12N009/00 C12N015/00.

☐ 31. EP 846769A. *Streptococcus pneumoniae* murl protein - useful for antibacterial drug screening. BELLIDO, M L Y, et al. C07H021/02 C07H021/04 C07K001/00 C07K014/00 C07K014/315 C12N009/00 C12N009/90 C12N015/00 C12N015/61 C12P021/04 C12P021/06 C12Q001/533 G01N033/53 G01N033/567 G01N033/569.

☐ 32. US 5681694A. *Streptococcus pneumoniae* MurD protein - useful for antibacterial drug screening. HOSKINS, J A, et al. C07H021/04 C12N001/20 C12N001/21 C12N009/00 C12N009/99 C12N015/00 C12N015/52 C12Q001/00 C12Q001/25 C12N001/21 C12R001:19.

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mur.d.ti,ab,clm. or mur-d.ti,ab,clm.	32

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L1: Entry 1 of 32

File: PGPB

Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040203077

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040203077 A1

TITLE: Method and kit for quantitation of polypeptides

PUBLICATION-DATE: October 14, 2004

INVENTOR-INFORMATION:

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ASSIGNEE-INFORMATION:

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APPL-NO: 10/ 473043 [PALM]

DATE FILED: May 4, 2004

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
IL	142246	2001IL-142246	March 26, 2001

PCT-DATA:

DATE-FILED	APPL-NO	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
Mar 25, 2002	PCT/IL02/00246				

INT-CL: [07] G01 N 33/53, G01 N 33/567, G01 N 33/569, C12 N 15/87, C12 N 15/74

US-CL-PUBLISHED: 435/007.2; 435/007.31, 435/455, 435/483

US-CL-CURRENT: 435/7.2; 435/455, 435/483, 435/7.31

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

The invention relates to a method for quantitation of recombinant proteins of interest in the absence of specific antibodies, which is particularly suitable for screening cell clones expressing heterologous genes.

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L3: Entry 3 of 4

File: USPT

Apr 3, 2001

US-PAT-NO: 6211161

DOCUMENT-IDENTIFIER: US 6211161 B1

TITLE: UDP-N-acetylmuramoyl-l-alanine:D-glutamate ligase (MURD) of staphylococcus aureus

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Lonetto; Michael A	Collegeville	PA		
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ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Brigham & Women's Hospital	Boston	MA			02	
Virus Research Institute	Cambridge	MA			02	
SmithKline Beecham Corporation	Philadelphia	PA			02	
SmithKline Beecham plc,				GB	03	

APPL-NO: 09/ 147928 [PALM]

DATE FILED: March 19, 1999

PARENT-CASE:

RELATED APPLICATIONS This application claims benefit of U.S. Provisional Patent Application No. 60/061,064 filed Oct. 3, 1997.

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/US98/20773	October 2, 1998	WO99/17794	Apr 15, 1999	Mar 19, 1999	Mar 19, 1999

INT-CL: [07] A61 K 48/00, C07 H 21/00, C12 N 15/31, C12 N 15/52, C12 N 15/63

US-CL-ISSUED: 514/44; 435/69.1, 435/252.3, 435/254.11, 435/325, 435/320.1, 435/455, 435/471, 536/23.1, 536/23.2, 536/23.4, 536/23.7

US-CL-CURRENT: 514/44; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/455, 435/471, 435/69.1, 536/23.1, 536/23.2, 536/23.4, 536/23.7

FIELD-OF-SEARCH: 435/69.1, 435/320.1, 435/252.3, 435/254.11, 435/325, 435/455, 435/471, 536/23.1, 536/23.2, 536/23.4, 536/23.7, 514/44

PRIOR-ART-DISCLOSED:

OTHER PUBLICATIONS

El-Sherbeini, et al., "Staphylococcus aureus UDP-N-acetylmuramoyl-L-alanine: D-glutamate ligase (murD) gene, complete cds", GenBank Submission, Accession No. AF009671, Jul. 23, 1997.

Mengin-Lecreulx, et al., "Nucleotide sequence of the murD gene encoding the UDP-MurNAc-L-Ala-D-Glu synthetase of Escherichia coli", Nucleic Acids Research, vol. 18, 18, No. 1, p. 183, Oxford University Press 1990.

El-Sherbeini, et al., "Cloning and expression of Staphylococcus aureus and Streptococcus pyogenes murD genes uridine diphosphate N-acetylmuramoyl-L-alanine:D-glutamate ligases", Gene, vol. 210, pp. 117-125, (1998).

Pucci, et al., "Staphylococcus aureus strain ATCC 8325-4 cell wall/cell division gene cluster, yllB, yllC, yllD, pbpA, murD, divlB, ftsA and ftsZ genes, complete cds.", GenBank Submission, Accession No. U94706, Jun. 3, 1997.

Pucci, et al., "Identification and Characterization of Cell Wall-Cell Division Gene Clusters in Pathogenic Gram-Positive Cocci", Journal of Bacteriology, vol. 179, No. 17, pp. 5632-5635, Sep. 1997.

Pucci, et al., Identification of bacterial UDP-N-acetyl muramyl-L-alanine: D-glutamate ligases. Abstracts of the 97th General Meeting of the American Society for Microbiology, May, 04-08, 1997, p. 360, abstract K-108.

ART-UNIT: 162

PRIMARY-EXAMINER: Priebe; Scott D.

ATTY-AGENT-FIRM: Gimmi; Edward R. Deibert; Thomas S. King; William T.

ABSTRACT:

The invention provides murD polypeptides and polynucleotides encoding murD polypeptides and methods for producing such polypeptides by recombinant techniques. Also provided are methods for utilizing murD polypeptides to screen for antibacterial compounds.

17 Claims, 0 Drawing figures

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